

### **AMENDMENTS TO THE CLAIMS:**

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) Process for the sterilization and/or germ reduction of elastomeric two-component dental molding materials, said process comprising the steps of:
  - providing two components of the dental molding materials, wherein at least one component of the two components comprises a polymer having one or more functional groups, and further wherein the at least one component comprises:
    - i) silicone impression materials which are cross-linkable via addition curing or condensation curing reactions;
    - ii) polyether impression materials which are cross-linkable via addition curing or condensation curing reactions or via a cross-linking ring-opening reaction;
    - iii) ring opening polyether impression materials via an aziridino group;
    - or
    - iv) polyether impression materials which are cross-linkable by condensation reaction; and
  - subjecting the two components in an unmixed state in a primary packing agent to radiation sterilization.

2. (Previously Presented) Process according to Claim 1, wherein the two components are cross-linkable together.

3.-5. (Canceled)

6. (Previously Presented) Process according to Claim 1, which further comprises radiation sterilizing, in addition to said dental mold materials, an addition cross-linking silicon impression material, said addition cross-linking silicon impression material comprising vinyl-group-containing polysiloxanes, said vinyl-group-containing polysiloxanes comprising at least in part diphenyl siloxane- and/or phenyl methyl siloxane structural units.

7. (Previously Presented) Process according to Claim 6, wherein the addition cross-linking silicon impression material comprises a polymer comprising at least 3 Mol-% diphenyl siloxane and/or phenyl methyl siloxane units.

8. (Canceled)

9. (Currently Amended) Process according to Claim 1, wherein the two components are arranged in the primary packaging and are simultaneously radiation treated along with accessories for mixing or for application of the dental molding ~~mold~~-material.

10. (Previously Presented) Process according to Claim 1, wherein a twin-chamber cartridge is used as primary packaging and a mixing nozzle as accessory.

11. (Original) Process according to Claim 1, wherein the radiation sterilization is performed by means of gamma rays or electron rays.

12. (Previously Presented) Process according to Claim 11, wherein the radiation sterilization is performed at a radiation dose of a maximum of 50 kGy.

13.-15. (Canceled)

16. (Previously Presented) Process according to Claim 7, wherein the polymer comprises at least 10 Mol-% diphenyl siloxane and/or phenyl methyl siloxane units.

17. (Previously Presented) Process according to Claim 12, wherein the radiation sterilization is performed at a radiation dose of 20 to 30 kGy.

18. (Canceled)

19. (New) Process according to Claim 1, wherein the one or more functional groups is a vinyl group and a SiH group when the at least one component comprises silicone impression materials or an aziridino group when the at least one component comprises polyether impression materials.